



SEQ Listing_FCER1A.ST25_rev.txt
SEQUENCE LISTING

<110> Genaissance Pharmaceuticals, Inc.
Chew, Anne
Denton, R. Rex
Duda, Amy
Kliem, Stefanie E.
Brown, Elizabeth M.
Nandabalan, Krishnan
Stephens, J. Claiborne

<120> HAPLOTYPES OF THE FCER1A GENE

<130> MWH-0007US

<140> US 10/073,735

<141> 2002-02-11

<150> 60/147,860

<151> 1999-08-09

<150> PCT/US00/21097

<151> 2000-08-02

<160> 114

<170> PatentIn version 3.1

<210> 1

<211> 7372

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (586)..(586)

<223> PS1: Polymorphic base T or G

<220>

<221> allele

<222> (657)..(657)

<223> PS2: Polymorphic base T or C

<220>

<221> allele

<222> (906)..(906)

<223> PS3: Polymorphic base T or C

<220>

<221> allele

<222> (913)..(913)

<223> PS4: Polymorphic base A or T

<220>

<221> allele

<222> (1077)..(1077)

<223> PS5: Polymorphic base C or A

<220>

<221> allele

<222> (1468)..(1468)

<223> PS6: Polymorphic base T or C

```

<220>
<221> allele
<222> (1474)..(1474)
<223> PS7: Polymorphic base C or A

<220>
<221> allele
<222> (1610)..(1610)
<223> PS8: Polymorphic base C or T

<220>
<221> allele
<222> (2422)..(2422)
<223> PS9: Polymorphic base A or G

<220>
<221> allele
<222> (2738)..(2738)
<223> PS10: Polymorphic base A or G

<220>
<221> allele
<222> (2789)..(2789)
<223> PS11: Polymorphic base G or A

<220>
<221> allele
<222> (2934)..(2934)
<223> PS12: Polymorphic base T or C

<220>
<221> allele
<222> (3000)..(3000)
<223> PS14: Polymorphic base G or A

<220>
<221> allele
<222> (3044)..(3044)
<223> PS14: Polymorphic base G or A

<220>
<221> allele
<222> (4552)..(4552)
<223> PS15: Polymorphic base G or A

<220>
<221> allele
<222> (4822)..(4822)
<223> PS16: Polymorphic base C or T

<220>
<221> allele
<222> (4999)..(4999)
<223> PS17: Polymorphic base C or T

<220>
<221> allele
<222> (5077)..(5077)
<223> PS18: Polymorphic base T or C

<220>

```

SEQ Listing_FCER1A.ST25_rev.txt

<221> allele
 <222> (6535)..(6535)
 <223> PS19: Polymorphic base C or A

<220>
 <221> allele
 <222> (6625)..(6625)
 <223> PS20: Polymorphic base T or C

<220>
 <221> allele
 <222> (6650)..(6650)
 <223> PS21: Polymorphic base A or G

<220>
 <221> allele
 <222> (6714)..(6714)
 <223> PS22: Polymorphic base G or A

<400> 1
 aaacagaaga attagtaaag gaatcctgga gaaagcccct gctgtgtatt taaaggagaa 60
 agggagatca tgttgggaaa ttataatatt aaaagtaaac aaaagctagg aagtaaaata 120
 aaataaatta tatggcctag atccccataa gtaatggttt aacttctgcc ttcctgtgtt 180
 ctgagccaga ttagggcaca gtagagaaaag aggagtctct gaaaatgttt ccaatttcgc 240
 ttgtcagaca gcggatcatc agtgaatcag atgaaaattt gtggatttat gcactaactg 300
 atcagcagga aattaaacaa gaaaagcgtt ggtagctctg gtgaatccca aaagaatttg 360
 gcagttgcta gccatgctcc tgaatatgta taaacagtac atcatatgac taagagtttg 420
 acttaggggt tagattttat gtgtttgaac cccaaattag ttattttaata gttggcacc 480
 caaaacaagt tacttaacct cactaagatt cagttttcct gtttataaaa ttagatagat 540
 gatagtatgt actttatagg attattgtga aaaataaatg aaatakcaga tttatttagg 600
 ataacacctg gcatatgttt ggtattcagt aattagttgc tgctgtttta ttctgcycct 660
 ccttgcatcc cacttttcta agttgtaaac taaatagttg tacacagatt gacagattaa 720
 gaaaggcttg tgattgtgct agacctatgc ctctctctca ccagattcca ggtgtatatg 780
 tggaggtggg ataggagtg gagtaagtgg gtaaatatta aattgccag ttgggcacca 840
 tcctgaatat tatctctaaa gaaagaagca aaaccaggca cagctgatgg gttaaccaga 900
 tatgayacag aawacatttc cttctgcttt ttggttttaa gcctatatatt gaagccttag 960
 atctctccag cacagtaagc accaggagtc catgaagaag atggctcctg ccatggaatc 1020
 ccctactcta ctgtgtgtag ccttactgtt cttcggtaag tagagattca attaccmctc 1080
 ccaggagggc ccaaatgaat ttggggagca gctgggtag gaacctttac tgtgggtggt 1140
 gactttttct aggacatgtg caaactattg ggcatttccc agggactctg tagtggagcc 1200
 aagctagaaa gcagaggcaa gtgggctgag caacacctaa ggagggaagcc agactgaaag 1260
 cttggttcct tgcatttgct ctggcatcct ccagagtgc aatttcctac caaggtaatg 1320
 agggtagagg agagaaagaa gctctttctt cccctgattc tcatcctga aaagacggtt 1380
 ggtccttaaa attccatgga ttagatcctt atccccacac ccagattcta gtcctctgga 1440
 gataaagaag actgctggag actaatgyat cctmtctgga cttttgcagc tccagatggc 1500
 gtgttagcag gtgagtcctc tgttcttggt ccttggtgt atcaacatgt ctgggcattg 1560
 ctttctctc actattttct tcgtcccac acttctgctt tctaagtagy atgaatctgt 1620
 tccttgcca gactactttc cctctccacc ttgccttgct tttcttttt tccctgattc 1680
 attgcattct ctcaagtcatt tctctcctct gttttagtc ataaccatgt ctgttgca 1740
 tatacatgtc tcattctctc tcttagacac tttggcatga tctcgtcaa taattacatt 1800
 attattatta ttgccatttt ataattgagg atgctgaaac tcagtgattt tctggtggtt 1860
 acatggctaa ggaactggat ttcaacgtaa gttccttgga tctaagtcca gttctcttct 1920
 gactatatca ccttttggtt atcaccatgt atctacttct ttggtctctg ttcaaatgtg 1980
 cactacatcc ccttgttcca ggaagccatt caagactgac tttcttagtg cctctcacta 2040
 ctttctggaa ctgacatatg tttttcactc tgtatatact tacaattaaa tagtcataaa 2100
 tattcagagc ttggagaaac cttatatctc atccagtcca gtaaatattat ccatccataa 2160
 ttactcatt cattcacata ataaatattt aatgtaacaa tgggtgaaca tggcagacag 2220
 tgtttctacc tcaaaagaga ttgcagtcct catttacaga tactgaattg aaattaacag 2280
 aagtagagt agtcagctca aatcacatag tgaattggtt tctttgtttt taaatctcct 2340
 gcatatgtgt cctgtctttc tccctgtgtt gggcgttccc tggggcacca atactaat 2400
 ctcttcccc tagaaatcaa arcagggtct tatcaccaac agaataagga caggttgacc 2460
 actgattgtc agaattattgc ttcgtttgta cttttaagcc tagacagttt tcaatgactt 2520

SEQ Listing_FCFER1A.ST25_rev.txt

tttttctctc	tacatgtctt	ttcatatttt	tatcttcttg	aagtccctca	gaaacctaag	2580
gtctccttga	accctccatg	gaatagaata	tttaaaggag	agaatgtgac	tcttacatgt	2640
aatgggaaca	atttctttga	agtcagttcc	accaaattgt	tccacaatgg	cagcctttca	2700
gaagagacaa	attcaagttt	gaatattgtg	aatgccarat	ttgaagacag	tggagaatac	2760
aaatgtcagc	accaacaagt	taatgagart	gaacctgtgt	acctggaagt	cttcagtggt	2820
aagtccacag	gatatggaaa	tacagatctc	tcagtgtgag	gatggctcat	ctgaagatgg	2880
gaaaaaacag	gttattccaa	gggttaggac	accagagtgg	gattcaaggc	ctcycatttt	2940
taagaccctt	gcattggctg	ggcacagtgg	ctcacgcctg	taatcccagc	actttgggar	3000
gctgaggcag	gtggatcacg	aggtcaggag	atcgagacca	tccrgctaac	atggtgaaac	3060
cccattctct	ctaaaaaata	tatatatata	aaattagccg	ggcgtagtgg	tgggcacctg	3120
tagtcccagg	tactcgggag	gctgaggcag	gagaatgggt	tgaaccacag	aggtggaggt	3180
tgcaagtgcg	tgagatcacg	ccactgccct	ccagcctggg	ctacagagca	agactccgtc	3240
tcaaaaaata	aataaataaa	taaaaaagac	ccctgcattc	cttttcttct	accccccttc	3300
cttttgatta	cttgatgcc	ttctttcaat	attctagtca	tctctcaata	ttattcctcc	3360
accctatttt	cctctatctt	ttctgcctag	attcaggtat	atattatgtg	gtcaaacacg	3420
atgacataa	tgtgaacatt	tcaaagagct	gtgtatctgg	aataggatca	aaaggtttga	3480
cttaaaagttt	tgctctgcat	aatccatatg	gcaggacctg	aatattaggt	tgtactcttc	3540
gttatgaaac	atatctgggt	acatttcctt	atgtcctctg	ttgttactta	agaacacata	3600
tttcatgctt	gtttcatttt	tatcactcct	actgccaaaca	aatagcatag	catgcttagg	3660
cacatgtggc	ttaattagca	aatgttgaat	aaacaaatta	atgattttga	atagtgaacca	3720
ataggctctc	tttatactct	atatttttct	cttgagtga	aaaaaatgtt	tcaacctcca	3780
tatgtaaatt	ccaaacacaa	actaaagcaa	tgtagaatag	cttctttatt	ccctggagta	3840
ggttctagag	aagtccataa	ggattggctc	taaatataatt	atgcttatta	tgctagcgat	3900
atttcctttc	aaaattctcc	tttaataaat	gctttttaat	ttttacaaaa	gcattaacca	3960
tagaatgtga	ttcttgtctt	tcactgactc	attagtga	aatatttgtt	gagtacctac	4020
caactcctaa	gtattgctac	caactcctaa	atactgtgtt	gggcattcag	aatagaatgt	4080
agaactagac	aggggtccctg	acttcttgga	gcacagagca	gtatgggaag	aggacattaa	4140
ataaagaatt	acataagtaa	ttaatttaaa	ttatacatgt	tttgaagaag	tttttttttg	4200
acaactataa	ttaacactag	aactgggaag	tttctataag	gtaagagagg	acaaaataga	4260
cactctccta	agctaaaatt	cccaagaaaag	actgtttatt	ttcccctaac	taactagaac	4320
tagcaacaga	agatctgaaa	ggaattcttg	ctttcaagt	ttccatgtat	ggactcatca	4380
gggagggtccg	agaggctttg	tggtcccccaga	ctgacttttc	aggaggggaa	aggatttatc	4440
aatacacaa	acaggctcta	agcattattt	tgtgcccttt	aaaaatccac	tttatgagcc	4500
aaaaagtgcg	ttaattgata	ttcatagttt	ctgacacatg	ctctatgcgt	grctctcttt	4560
tctctattca	ttctctctct	cttcatttat	tggttaaata	ataatgta	gaatgttctt	4620
cagactggct	gctccttctag	gcctctgctg	agtggtgtat	ggagggccag	cccctcttcc	4680
tcagggtgcca	tggttggagg	aactgggatg	tgtacaagg	gatctattat	aaggatgggt	4740
aagctctcaa	gtactgggtat	gagaaccaca	acatctccat	tacaaatgcc	acagttgaag	4800
acagtggaa	ctactactgt	aygggcaaa	tgtggcagct	ggactatgag	tctgagcccc	4860
tcaacattac	tgtataaaaa	ggtgagttgg	taaaggaaa	gaaaagcatc	catagcagg	4920
gaagggaag	agaacttctg	agcctgagca	ggtgcagctt	gtagaagggg	ggcacctgtg	4980
atacactgga	aagcctacya	gacttgcaat	gaggagacct	gggtgatagt	atatactctc	5040
atctctgttt	caaagccttg	acttgtaaa	tggtgayagt	aatacctgct	tgcaactatga	5100
aatttttatg	aagattaatg	tggtaatatt	tgtgaaatga	ctttgtaaac	tggttaagcac	5160
taccacaagc	taacagattg	tgattactat	tttgatctca	aagtcattctg	ttgtcctctg	5220
gggaacactt	atattttatc	aattgaaaaa	aagtttcaaa	gttgaatgaa	gaaaggatat	5280
aaagagcttg	aggagcccat	tccagcttag	gagggtctggg	aaaggaaaacc	agcaagtcag	5340
taagctgtgt	gcctgtgtat	tgaggggagga	gggaatggac	ttgatatgga	gagggttaggg	5400
agggtggactg	cctctatggc	ctgtaagaaa	aactgctctc	tccaaactct	ttataagaga	5460
gggagcctgt	gaagtattca	cttttgaaag	agaaagttag	acttttcctt	cacacacttt	5520
gtacataata	atgtttaaaa	aagcatgagg	tcaaaataca	taattaagtc	ctagcagttc	5580
tctgttaact	aatttgagac	tgaagtgtca	tgtacttgct	tctaggcttc	cagtatcttc	5640
atctgtaaaa	cagaatattt	ggtctagatt	ccattagaat	catttgataa	cttaaaaaat	5700
atattgatgc	tcatgtctca	tttcttgaga	ttctgattta	attggtttgg	ggtgcagcct	5760
gggtatacgt	ggtctttcac	ggtctttcac	ataattgtaa	tgggtagcca	atattgagaa	5820
tcacttgctc	aggtgatctt	taaatgat	ctggagttaa	tattctgagg	ctctataatt	5880
tgagactaat	cacaaaaatc	ggtacagttt	ataaacagac	taacagaacc	acaaaaataat	5940
agaattggaa	ggcaatttaa	ctagtgaat	ttcttcattt	tgccctaacag	gcatgtaaga	6000
aatgatgatt	gattgagtaa	taggcattga	tgaccctgt	cctcactttg	tcccctttcc	6060
accccttaat	tatatgtgaa	ttctgggtctt	gtcatttcga	ataaggggtt	tatctttcct	6120
attgtcttcc	cctctgggca	cggcacactg	gctactggag	ttaaggaggaa	atgcttagga	6180
ctccctgtgg	ctccagggag	caccaacaga	gcaactcaac	ctagtgttaa	tctgagtgtt	6240

SEQ Listing_FCFER1A.ST25_rev.txt

ttctctgtgc	ttctggatgc	cacatcacgc	taaaaatgaa	ggacaaagct	tggtctttct	6300
cttagggagg	atgaaactct	gaacctcatt	tttcagttcc	caagatgaat	tatgtttctc	6360
attgcatctg	tggtccacta	cagctccgcg	tgagaagtac	tggtctacaat	tttttatccc	6420
attgttggtg	gtgattctgt	ttgctgtgga	cacaggatta	tttatctcaa	ctcagcagca	6480
ggtcacattt	ctcttgaaga	ttaagagaac	caggaaaggc	ttcagacttc	tgaamccaca	6540
tcctaagcca	aaccccaaaa	acaactgata	taattactca	agaaatattt	gcaacattag	6600
tttttttcca	gcatacagcaa	ttgcyactca	attgtcaaac	acagcttgcr	atatacatag	6660
aaacgtctgt	gctcaaggat	ttatagaaat	gcttcattaa	actgagtga	actrgttaag	6720
tggtcatgtaa	tagtaagtgc	tcaattaaca	ttggttgaat	aaatgagaga	atgaatagat	6780
tcatttatta	gcatttgtaa	aagagatggt	caatttcaat	aaaataaata	taaaaccatg	6840
taacagaatg	cttctgagta	ttcaaggcct	gctagtttgt	ttgtttgttt	tctactaaag	6900
gcaaggacca	tgaagtctta	gattggaaat	gtcctctctt	gactattgca	agtgcgatct	6960
aggaatgaaa	agacatagga	ggatgccagt	gagggtggatc	atttttatgc	ttcttcttca	7020
gcttactaaa	tatgaacttt	cagttcttgg	cagaatcagg	gacagttctca	agacatagga	7080
ctctcaggat	gaagtagagt	ccaggattcc	tctgtgattg	ttttgcccct	cccaaattta	7140
tatcttgaac	ttatgtcttg	tatctttata	cagcacctga	accaagcatt	ttggagaaat	7200
tcacagtaaat	aataataaacc	aaaaccttcg	gctctgaaaa	cagtccagga	ctgaataaga	7260
tcttgggcaa	aagaactaga	cagttttggt	ttattttccc	tttcatttta	tgtcttcac	7320
atagtcattg	gaggctcatt	cttcttgtca	tggagtaa	at		7372

<210> 2
 <211> 774
 <212> DNA
 <213> Homo sapiens

<400> 2						
atggctcctg	ccatggaatc	ccctactcta	ctgtgtgtag	ccttactgtt	cttcgctcca	60
gatggcgtgt	tagcagttccc	tcagaaacct	aagggtctcct	tgaaccctcc	atggaataga	120
atattttaaag	gagagaatgt	gactcttaca	tgtaatggga	acaatttctt	tgaagtcagt	180
tccaccaa	ggttccacaa	tggtcagcctt	tcagaagaga	caaattcaag	tttgaatatt	240
gtgaatgcca	aatttgaaga	cagtggagaa	tacaaatgtc	agcaccaaca	agttaatgag	300
agtgaacctg	tgtacctgga	agtcttcagt	gactggctgc	tccttcaggc	ctctgctgag	360
gtgggtgatgg	agggccagcc	cctcttcctc	aggtgccatg	gttggaggaa	ctgggatgtg	420
tacaagggtga	tctattataa	ggatggtgaa	gctctcaagt	actggtatga	gaaccacaac	480
atctccatta	caaatagccac	agttgaagac	agtggaaacct	actactgtac	gggcaaagtg	540
tggcagctgg	actatgagtc	tgagcccctc	aacattactg	taataaaaagc	tccgcgtgag	600
aagtactggc	tacaattttt	tatcccattg	ttggtggtga	ttctgtttgc	tgtggacaca	660
ggattattta	tctcaactca	gcagcaggtc	acatttctct	tgaagattaa	gagaaccagg	720
aaaggcttca	gacttctgaa	cccacatcct	aagccaaaacc	ccaaaaacaa	ctga	774

<210> 3
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 3	
Met Ala Pro Ala Met Glu Ser Pro Thr Leu Leu Cys Val Ala Leu Leu	
1 5 10 15	
Phe Phe Ala Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val	
20 25 30	
Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr	
35 40 45	
Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp	
50 55 60	
Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile	
65 70 75 80	
Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln	
85 90 95	
Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp	
100 105 110	
Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu	

SEQ Listing_FCER1A.ST25_rev.txt

115	120	125													
Phe	Leu	Arg	Cys	His	Gly	Trp	Arg	Asn	Trp	Asp	Val	Tyr	Lys	Val	Ile
130						135					140				
Tyr	Tyr	Lys	Asp	Gly	Glu	Ala	Leu	Lys	Tyr	Trp	Tyr	Glu	Asn	His	Asn
145					150					155					160
Ile	Ser	Ile	Thr	Asn	Ala	Thr	Val	Glu	Asp	Ser	Gly	Thr	Tyr	Tyr	Cys
				165					170						175
Thr	Gly	Lys	Val	Trp	Gln	Leu	Asp	Tyr	Glu	Ser	Glu	Pro	Leu	Asn	Ile
			180				185						190		
Thr	Val	Ile	Lys	Ala	Pro	Arg	Glu	Lys	Tyr	Trp	Leu	Gln	Phe	Phe	Ile
	195					200					205				
Pro	Leu	Leu	Val	Val	Ile	Leu	Phe	Ala	Val	Asp	Thr	Gly	Leu	Phe	Ile
210					215					220					
Ser	Thr	Gln	Gln	Gln	Val	Thr	Phe	Leu	Leu	Lys	Ile	Lys	Arg	Thr	Arg
225					230					235					240
Lys	Gly	Phe	Arg	Leu	Leu	Asn	Pro	His	Pro	Lys	Pro	Asn	Pro	Lys	Asn
				245					250						255

Asn

<210> 4
 <211> 15
 <212> DNA
 <213> Homo sapiens

<400> 4
 tgaaatakca gattt 15

<210> 5
 <211> 15
 <212> DNA
 <213> Homo sapiens

<400> 5
 attctgcyct ccctt 15

<210> 6
 <211> 15
 <212> DNA
 <213> Homo sapiens

<400> 6
 gatatgayac agaaa 15

<210> 7
 <211> 15
 <212> DNA
 <213> Homo sapiens

<400> 7
 tacagaawac atttc 15

<210> 8
 <211> 15
 <212> DNA
 <213> Homo sapiens

<400> 8
 aattaccmct cccag 15

<210> 9
 <211> 15

<212> DNA
<213> Homo sapiens

<400> 9
actaatgyat cctct 15

<210> 10
<211> 15
<212> DNA
<213> Homo sapiens

<400> 10
gtatcctmtc tggac 15

<210> 11
<211> 15
<212> DNA
<213> Homo sapiens

<400> 11
taatgagyat gaatc 15

<210> 12
<211> 15
<212> DNA
<213> Homo sapiens

<400> 12
aatcaaarca gggtc 15

<210> 13
<211> 15
<212> DNA
<213> Homo sapiens

<400> 13
aatgccarat ttgaa 15

<210> 14
<211> 15
<212> DNA
<213> Homo sapiens

<400> 14
aatgagartg aacct 15

<210> 15
<211> 15
<212> DNA
<213> Homo sapiens

<400> 15
aggcctcyca ttttt 15

<210> 16
<211> 15
<212> DNA
<213> Homo sapiens

<400> 16
tttgggargc tgagg 15

<210> 17
<211> 15
<212> DNA
<213> Homo sapiens

<400> 17
accatccrgc taaca 15

<210> 18
<211> 15
<212> DNA
<213> Homo sapiens

<400> 18
atgcgtgrct ctctt 15

<210> 19
<211> 15
<212> DNA
<213> Homo sapiens

<400> 19
tactgtaygg gcaaa 15

<210> 20
<211> 15
<212> DNA
<213> Homo sapiens

<400> 20
agcctacyag acttg 15

<210> 21
<211> 15
<212> DNA
<213> Homo sapiens

<400> 21
atggtgayag taata 15

<210> 22
<211> 15
<212> DNA
<213> Homo sapiens

<400> 22
ttctgaamcc acatc 15

<210> 23
<211> 15
<212> DNA
<213> Homo sapiens

<400> 23
caattgcyac tcaat 15

<210> 24
<211> 15
<212> DNA
<213> Homo sapiens

<400> 24

agcttgcrat ataca	15
<210> 25	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 25	
tgaaactrgt taagt	15
<210> 26	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 26	
aataaatgaa atakc	15
<210> 27	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 27	
ctaaataaat ctgmt	15
<210> 28	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 28	
tgttttattc tgcyc	15
<210> 29	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 29	
ggatgcaagg gagrg	15
<210> 30	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 30	
taaccagata tgaya	15
<210> 31	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 31	
aaatgttttc tgtrt	15
<210> 32	
<211> 15	
<212> DNA	

```

<213> Homo Sapiens

<400> 32
atatgataca gaawa 15

<210> 33
<211> 15
<212> DNA
<213> Homo sapiens

<400> 33
cagaaggaaa tgtwt 15

<210> 34
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 34
agattcaatt accmc 15

<210> 35
<211> 15
<212> DNA
<213> Homo sapiens

<400> 35
gcctccctgg gagkg 15

<210> 36
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 36
ctggacacta atgya 15

<210> 37
<211> 15
<212> DNA
<213> Homo sapiens

<400> 37
gtccagagag gatrc 15

<210> 38
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 38
actaatgtat cctmt 15

<210> 39
<211> 15
<212> DNA
<213> Homo sapiens

<400> 39
gcaaaagtcc agaka 15

<210> 40

```

<211> 15
<212> DNA
<213> Homo Sapiens

<400> 40
gcttttctaataat gagya 15

<210> 41
<211> 15
<212> DNA
<213> Homo sapiens

<400> 41
ggaacagatt catrc 15

<210> 42
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 42
cctagaaatc aaarc 15

<210> 43
<211> 15
<212> DNA
<213> Homo sapiens

<400> 43
tgataagacc ctgyt 15

<210> 44
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 44
attgtgaatg ccara 15

<210> 45
<211> 15
<212> DNA
<213> Homo sapiens

<400> 45
actgtcttca aatyt 15

<210> 46
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 46
caagttaatg agart 15

<210> 47
<211> 15
<212> DNA
<213> Homo sapiens

<400> 47

gtacacaggt tcayt	15
<210> 48	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 48	
gattcaaggc ctcyc	15
<210> 49	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 49	
ggtcttaaaa atgrg	15
<210> 50	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 50	
cagcactttg ggarg	15
<210> 51	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 51	
cacctgcctc agcyt	15
<210> 52	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 52	
atcgagacca tcarg	15
<210> 53	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 53	
tcaccatgtt agcyg	15
<210> 54	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 54	
tgctctatgc gtgrc	15
<210> 55	
<211> 15	
<212> DNA	

```

<213> Homo sapiens

<400> 55
agagaaaaga gagyc 15

<210> 56
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 56
acctactact gtayg 15

<210> 57
<211> 15
<212> DNA
<213> Homo sapiens

<400> 57
ccacactttg cccrt 15

<210> 58
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 58
ctggaaagcc tacya 15

<210> 59
<211> 15
<212> DNA
<213> Homo sapiens

<400> 59
tcattgcaag tctrg 15

<210> 60
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 60
tgttaaatgg tgaya 15

<210> 61
<211> 15
<212> DNA
<213> Homo sapiens

<400> 61
agcaggtatt actrt 15

<210> 62
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 62
tcagacttct gaamc 15

<210> 63

```

<211> 15
<212> DNA
<213> Homo sapiens

<400> 63
gcttaggatg tggkt 15

<210> 64
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 64
catcagcaat tgcya 15

<210> 65
<211> 15
<212> DNA
<213> Homo sapiens

<400> 65
ttgacaattg agtrg 15

<210> 66
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 66
aaacacagct tgcra 15

<210> 67
<211> 15
<212> DNA
<213> Homo sapiens

<400> 67
tttctatgta tatyg 15

<210> 68
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 68
actgagtga actrg 15

<210> 69
<211> 15
<212> DNA
<213> Homo sapiens

<400> 69
catgccactt aacya 15

<210> 70
<211> 10
<212> DNA
<213> Homo sapiens

<400> 70

aaatgaaata	10
<210> 71	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 71	
aataaatctg	10
<210> 72	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 72	
tttattctgc	10
<210> 73	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 73	
tgcaaggag	10
<210> 74	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 74	
ccagatatga	10
<210> 75	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 75	
tgttttctgt	10
<210> 76	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 76	
tgatacagaa	10
<210> 77	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 77	
aaggaaatgt	10
<210> 78	
<211> 10	
<212> DNA	

```

<213> Homo sapiens

<400> 78
ttcaattacc 10

<210> 79
<211> 10
<212> DNA
<213> Homo sapiens

<400> 79
tccctgggag 10

<210> 80
<211> 10
<212> DNA
<213> Homo sapiens

<400> 80
gacactaatg 10

<210> 81
<211> 10
<212> DNA
<213> Homo sapiens

<400> 81
cagagaggat 10

<210> 82
<211> 10
<212> DNA
<213> Homo sapiens

<400> 82
aatgtatcct 10

<210> 83
<211> 10
<212> DNA
<213> Homo sapiens

<400> 83
aaagtccaga 10

<210> 84
<211> 10
<212> DNA
<213> Homo sapiens

<400> 84
ttctaagtag 10

<210> 85
<211> 10
<212> DNA
<213> Homo sapiens

<400> 85
acagattcat 10

```


<210> 86
<211> 10
<212> DNA
<213> Homo sapiens

<400> 86
agaaatcaaaa 10

<210> 87
<211> 10
<212> DNA
<213> Homo sapiens

<400> 87
taagaccctg 10

<210> 88
<211> 10
<212> DNA
<213> Homo sapiens

<400> 88
gtgaatgcca 10

<210> 89
<211> 10
<212> DNA
<213> Homo sapiens

<400> 89
gtcttcaaatt 10

<210> 90
<211> 10
<212> DNA
<213> Homo sapiens

<400> 90
gttaatgaga 10

<210> 91
<211> 10
<212> DNA
<213> Homo sapiens

<400> 91
cacaggttca 10

<210> 92
<211> 10
<212> DNA
<213> Homo sapiens

<400> 92
tcaaggcctc 10

<210> 93
<211> 10
<212> DNA
<213> Homo sapiens

<400> 93	
cttaaaaatg	10
<210> 94	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 94	
cactttggga	10
<210> 95	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 95	
ctgcctcagc	10
<210> 96	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 96	
gagaccatcc	10
<210> 97	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 97	
ccatgttagc	10
<210> 98	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 98	
tctatgcgtg	10
<210> 99	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 99	
gaaaagagag	10
<210> 100	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 100	
tactactgta	10
<210> 101	
<211> 10	

```

<212> DNA
<213> Homo sapiens

<400> 101
cactttgccc 10

<210> 102
<211> 10
<212> DNA
<213> Homo sapiens

<400> 102
gaaagcctac 10

<210> 103
<211> 10
<212> DNA
<213> Homo sapiens

<400> 103
ttgcaagtct 10

<210> 104
<211> 10
<212> DNA
<213> Homo sapiens

<400> 104
taaatggtga 10

<210> 105
<211> 10
<212> DNA
<213> Homo sapiens

<400> 105
aggtattact 10

<210> 106
<211> 10
<212> DNA
<213> Homo sapiens

<400> 106
gacttctgaa 10

<210> 107
<211> 10
<212> DNA
<213> Homo sapiens

<400> 107
taggatgtgg 10

<210> 108
<211> 10
<212> DNA
<213> Homo sapiens

<400> 108
cagcaattgc 10

```

```

<210> 109
<211> 10
<212> DNA
<213> Homo sapiens

<400> 109
acaattgagt 10

<210> 110
<211> 10
<212> DNA
<213> Homo sapiens

<400> 110
cacagcttgc 10

<210> 111
<211> 10
<212> DNA
<213> Homo sapiens

<400> 111
ctatgtatat 10

<210> 112
<211> 10
<212> DNA
<213> Homo sapiens

<400> 112
gagtgaaact 10

<210> 113
<211> 10
<212> DNA
<213> Homo sapiens

<400> 113
gccacttaac 10

<210> 114
<211> 2640
<212> DNA
<213> Homo sapiens

<220>
<221> allele
<222> (30)..(30)
<223> PS1: Polymorphic base T or G

<220>
<221> misc_feature
<222> (61)..(120)
<223> N's represent sequence between PS1 and PS2

<220>
<221> allele
<222> (150)..(150)
<223> PS2: Polymorphic base T or C

<220>

```

<221> misc_feature
<222> (181)..(240)
<223> N's represent sequence between PS2 and PS3

<220>
<221> allele
<222> (270)..(270)
<223> PS3: Polymorphic base T or C

<220>
<221> misc_feature
<222> (301)..(360)
<223> N's represent sequence between PS3and PS4

<220>
<221> allele
<222> (390)..(390)
<223> PS4: Polymorphic base A or T

<220>
<221> misc_feature
<222> (421)..(480)
<223> N's represent sequence between PS4 and PS5

<220>
<221> allele
<222> (510)..(510)
<223> PS5: Polymorphic base C or A

<220>
<221> misc_feature
<222> (541)..(600)
<223> N's represent sequence between PS5 and PS6

<220>
<221> allele
<222> (630)..(630)
<223> PS6: Polymorphic base T or C

<220>
<221> misc_feature
<222> (661)..(720)
<223> N's represent sequence between PS6 and PS7

<220>
<221> allele
<222> (750)..(750)
<223> PS7: Polymorphic base C or A

<220>
<221> misc_feature
<222> (781)..(840)
<223> N's represent sequence between PS7 and PS8

<220>
<221> allele
<222> (870)..(870)
<223> PS8: Polymorphic base C or T

<220>
<221> misc_feature
<222> (901)..(960)

<223> N's represent sequence between PS8 and PS9

<220>
<221> allele
<222> (990)..(990)
<223> PS9: Polymorphic base A or G

<220>
<221> misc_feature
<222> (1021)..(1080)
<223> N's represent sequence between PS9 and PS10

<220>
<221> allele
<222> (1110)..(1110)
<223> PS10: Polymorphic base A or G

<220>
<221> misc_feature
<222> (1141)..(1200)
<223> N's represent sequence between PS10 and PS11

<220>
<221> allele
<222> (1230)..(1230)
<223> PS11: Polymorphic base G or A

<220>
<221> misc_feature
<222> (1261)..(1320)
<223> N's represent sequence between PS11 and PS12

<220>
<221> allele
<222> (1350)..(1350)
<223> PS12: Polymorphic base T or C

<220>
<221> misc_feature
<222> (1381)..(1440)
<223> N's represent sequence between PS12 and PS13

<220>
<221> allele
<222> (1470)..(1470)
<223> PS13: Polymorphic base G or A

<220>
<221> misc_feature
<222> (1501)..(1560)
<223> N's represent sequence between PS13 and PS14

<220>
<221> allele
<222> (1590)..(1590)
<223> PS14: Polymorphic base G or A

<220>
<221> misc_feature
<222> (1621)..(1680)
<223> N's represent sequence between PS14 and PS15

<220>
<221> allele
<222> (1710)..(1710)
<223> PS16: Polymorphic base G or A

<220>
<221> misc_feature
<222> (1741)..(1800)
<223> N's represent sequence between PS15 and PS16

<220>
<221> allele
<222> (1830)..(1830)
<223> PS16: Polymorphic base C or T

<220>
<221> misc_feature
<222> (1861)..(1920)
<223> N's represent sequence between PS16 and PS17

<220>
<221> allele
<222> (1950)..(1950)
<223> PS17: Polymorphic base C or T

<220>
<221> misc_feature
<222> (1981)..(2040)
<223> N's represent sequence between PS17 and PS18

<220>
<221> allele
<222> (2070)..(2070)
<223> PS18: Polymorphic base T or C

<220>
<221> misc_feature
<222> (2101)..(2160)
<223> N's represent sequence between PS18 and PS19

<220>
<221> allele
<222> (2190)..(2190)
<223> PS19: Polymorphic base C or A

<220>
<221> misc_feature
<222> (2221)..(2280)
<223> N's represent sequence between PS19 and PS20

<220>
<221> allele
<222> (2310)..(2310)
<223> PS20: Polymorphic base T or C

<220>
<221> misc_feature
<222> (2341)..(2400)
<223> N's represent sequence between PS20 and PS21

<220>
 <221> allele
 <222> (2430)..(2430)
 <223> PS21: Polymorphic base A or G

<220>
 <221> misc feature
 <222> (2461)..(2520)
 <223> N's represent sequence between PS21 and PS22

<220>
 <221> allele
 <222> (2550)..(2550)
 <223> PS22: Polymorphic base G or A

<220>
 <221> misc feature
 <222> (2581)..(2640)
 <223> N's represent sequence 3' to PS22

<400> 114
 taggattatt gtgaaaaata aatgaaatak cagatttatt taggataaca cctggcatat 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 agtaattagt tgctgctgtt ttattctgcy ctcccttgca tcccactttt ctaagttgta 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 ggcacagctg atgggttaac cagatatgay acagaaaaca ttctcttctg ctttttggtt 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 ctgatgggtt aaccagatat gatacagaaw acatttcctt ctgctttttg gttttaagcc 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 gttcttcggt aagtagagat tcaattaccm ctcccaggga ggcccaaagt aatttgggga 540
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
 gagataaaga agactgctgg acactaatgy atcctctctg gacttttgca gctccagatg 660
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
 aagaagactg ctggacacta atgtatcctm tctggacttt tgcagctcca gatggcgtgt 780
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
 tcgtcccatc acttctgctt tctaattgag atgaatctgt tccttggcca gactactttc 900
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
 actaatttct ccttccccta gaaatcaaar cagggtctta tcaccaacag aataaggaca 1020
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080
 aaattcaagt ttgaatattg tgaatgccar atttgaagac agtggagaat acaaatgtca 1140
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1200
 caaatgtcag caccaacaag ttaatgagar tgaacctgtg tacctggaag tcttcagtgg 1260
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1320
 taggacacca gagtgggatt caaggcctcy catttttaag acccctgcat tggctgggca 1380
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1440
 ctcacgcctg taatcccagc actttgggar gctgaggcag gtggatcacg aggtcaggag 1500
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1560
 atcacgaggt caggagatcg agaccatccr gctaacatgg tgaaacccca tctctgctaa 1620
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1680
 catagtttct gacacatgct ctatgcgtgr ctctctttt tctattcatt ctctctctct 1740
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1800
 agttgaagac agtggaaacct actactgtay gggcaaagtg tggcagctgg actatgagtc 1860
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1920
 gggcacctgt gatacactgg aaagcctacy agacttgcaa tgaggagacc tgggtgatag 1980
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2040
 tttcaaaaggc ttgacttgtt aaatgggtgay agtaataact gcttgacta tgaaattttt 2100
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2160
 agaaccagga aaggcttcag acttctgaam ccacatccta agccaaaaccc caaaaacaac 2220
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2280
 attagttttt ttccagcatc agcaattgcy actcaattgt caaacacagc ttgcaatata 2340
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2400
 ttgctactca attgtcaaac acagcttgcr atatacatag aaacgtctgt gctcaaggat 2460

SEQ Listing_FCER1A.ST25_rev.txt

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2520
agaaatgctt	cattaaactg	agtgaaactr	gttaagtggc	atgtaatagt	aagtgctcaa	2580
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2640